

Claims

1. Blister pack system comprising an upper part (4) and a bottom part (9), between which a blister pack (1) is disposed. Pouches (2') of the blister pack (1) are aligned with corresponding ejection openings (7) of the upper part (4) and corresponding ejection openings (7') of the bottom part (9). Every ejection opening (7) of the upper part (4) is associated with an individual contact surface (10 to 17) that can be connected to a control/computing unit (19) via an individual strip conductor (10a to 17a). Said blister pack system is further provided with an ejection device (40) comprising a peg section (27) that can be moved into a guide slot (8) and a top section (25) having a pusher section (23) that can be inserted into the ejection opening (7) of the upper part (4) that is associated with the pouch (2') for removing an item from a pouch (2'). A common contact surface (18) that can be connected via a common strip conductor (18a) to the control/computing unit (19) is associated with the guide slot (8). Said blister pack system is characterized in that the ejection device (40) comprises an electrical contact element (24) at the top section (25) and an additional electrical contact element (30) at the peg section (27). The contact element (30) is electrically connected to the electrical contact element (24) of the top section (25). The blister pack system is further characterized in that the individual contact surfaces (10 to 17) and the individual strip conductors (10a to 17a) associated therewith on the one side as well as the common contact surface (18) and the common strip conductor (18a) associated therewith or a subsection thereof on the other side extend in surfaces of the upper part (4) that are electrically insulated from each other.
2. Blister pack system pursuant to claim 1, characterized in that at least one of the individual strip conductors (10a to 17a) and the common strip conductor (18a) is at least partially covered by an electrically insulating layer (85).
3. Blister pack system pursuant to claim 1 or 2, characterized in that it comprises a receiving region for a housing of the control/computing unit (19) as well as an

interface arranged therein to the individual contact points (10b to 17b) and also to the common contact point (18b).

4. Blister pack system pursuant to any of the claims 1 to 3, characterized in that at least one individual strip conductor (10a to 17a) or the common strip conductor (18a) is through-connected to the other plane and is connected to the control/computing unit like each of the other strip conductors.
5. Blister pack system pursuant to claim 4, characterized in that the individual contact surfaces (10 to 17), the individual strip conductors (10a to 17a), the individual contact points (10b to 17b) as well as the common contact point (18b) are disposed on the side of the upper part (4) that is turned away from the bottom part (9), and that the common contact surface (18) and a first region (18a) of the common strip conductor are disposed on the side of the upper part (4) that is turned towards the bottom part (9) and that the first region (18a) of the common strip conductor is electrically connected via a through-connection (18a'') of the upper part (9) [sic: 4] to a second region (18a''') of the common strip conductor that extends on the side of the upper part (4) that is turned away from the bottom part (9) to the common contact point (18b).
6. Blister pack system pursuant to claim 5 characterized in that the control/computing unit (19) comprises electrical contact elements (47) that can be inserted into the socket-shaped individual contact points (10b to 17b) in the upper part (4) and/or into the common contact point (18b).
7. Blister pack system pursuant to claim 5 or 6 characterized in that the upper part (4) comprises a receiving region for receiving the control/computing unit (19), that the individual connection contact points (10b to 17b) and the common contact point (18b) are arranged in the interface region of the receiving region, that the individual strip conductors (10a to 17a) extend from the surface of the upper part (4) to the interface region of the receiving region over at least one surface of the

receiving region for a control/computing unit (19), that the second region (18a'') of the common strip conductor extends starting from the through-connection (18a'') protruding from the surface of the upper part (4) over at least one surface of the receiving region to the interface region in such a way that the housing of the control/computing unit (19) protectively covers at least one sub-area of the receiving region and at least the electrically non-insulated sub-sections of the individual strip conductors and the sub-sections of the second section (18a'') of the common strip conductor where said sub-sections extend in the receiving region. The housing of the control/computing unit (19) also protectively covers the sub-sections of the individual strip conductors (11a to 17a) that extend in the area of the base part (46) of the receiving region, the sub-section of the second section (18a'') of the common strip conductor (18) that extends in the area of the base part of the receiving region, the individual contact points (10b to 17b) and the common contact point (18b) when said housing is inserted into the receiving region.

8. Blister pack system pursuant to any of the claims 5 to 7, characterized in that on its side that is turned away from the control/computing unit (19), it comprises a insertion opening for the blister pack (1), that can be closed using a flap (38) and that a switching device (36) is provided that indicates the state of the flap (38) in which the feed opening is closed. For the purpose of the electrical connection to the control/computing unit (19), said switching device (36) is connected via strip conductors (36', 36'') to contact points (37, 37') [sic: 37, 37''] that are arranged in the interface region of the receiving region.
9. Blister pack system pursuant to any of the claims 5 to 8, characterized in that the individual contact surfaces (10 to 17), the individual strip conductors (10a to 17a), the second segment (18a'') of the common strip conductor and/or the common contact surface (18) and the first segment (18a) of the common strip conductor has the form of metal strips that are attached, preferably glued on the corresponding surfaces of the upper part (4).

10. Blister pack system pursuant to any of the claims 7 to 9, characterized in that the through-connection (18'') is arranged in the protected region of the receiving region.
11. Blister pack system pursuant to claim 1, characterized in that a strip conductor part (5') comprises at least a first section (B) that is connected to a second section (C) via a bending region (35), that the first section (B) and the second section (C) comprise ejection openings (7'') and a guide slot (8'') corresponding to the pattern of the blister pack (1) such that if the first section (B) and the second section (C) are bent around the bending region (35) in planes that are parallel to one another, then the ejection openings (7'') and the guide slot (8'') of the first section (B) and the ejection openings (7'') and the guide slot (8'') of the second section (C) are aligned with one another, that the first section (B) comprises the individual contact surfaces (10 to 17) in the region of the ejection openings (7'') on its first side that is turned away from the bottom part (9) in the assembled state, that the individual strip conductors (10a to 17a) extend starting from the individual contact surfaces (10 to 17) over the first section (B) and the first side of the second section (C) to the individual contact points (10b to 17b) arranged on the second section (C), that the common strip conductor (18a) extends on the first side of the second section (C) starting from the common contact surface (18) of the second section (C) to a common contact point (18b) on the first side of the second section (C) and that the first section (B) and the second section (C) are attached to the upper part (4) in such a way that the strip conductor part (5') extends in the bending region (35) around an edge of the upper part (4) in such a way that the ejection openings (7'') and the guide slot (8'') of the first section (B) and the ejection openings (7'') and the guide slot (8'') of the second section (C) are aligned with the ejection openings (7) and the guide slot (8) of the wall part of the upper part (4).

12. Blister pack system pursuant to claim 11 characterized in that the individual contact points (10b to 17b) and the common contact point (18b) are arranged on the second section in a row extending transversely to the longitudinal extension of the guide slot (8'') of the second section (C) on the side of the guide slot (8'') of the second section (C) that is turned away from the first section (B).
13. Blister pack system pursuant to claim 11 or 12 characterized in that in the assembled state, the first side of the first section (B) that is turned towards the bottom part and the side of the second section (C) that is turned away from the bottom part are attached, preferably glued to the upper part (4).
14. Blister pack system pursuant to any of the claims 11 to 13 characterized in that the first section (B) and the second section (C) are bent in the bending region (35) around a trailing edge of the upper part (4).
15. Blister pack system pursuant to any of the claims 11 to 14 characterized in that the upper part (4) comprises a recess (21) extending transversely to the guide slot (8) and that one edge of the bending region (35) extends around said recess (21).
16. Blister pack system pursuant to any of the claims 11 to 15 characterized in that the first section (B) of the strip conductor part (5') is connected on its side that is turned away from the section (C) along a bending line (34) to a third section (A) that comprises ejection openings (7'') and a guide slot (8'') such that when the third section (A) is congruently bent along the bending line (34) onto the first section (B), the ejection openings (7'') and the guide slot (8'') of the third section (A) are aligned with the ejection openings (7'') and the guide slot (8'') of the first section (B), that the third section (A) protectively covers the individual strip conductors (10a to 17a) in the region of the first section (B) while the individual contact surfaces (10 to 17) in the ejection openings (7'') of the third section (C) are exposed.

17. Blister pack system pursuant to claim 16, characterized in that the third section (A) is attached, preferably glued to the first section (B).
18. Blister pack system pursuant to any of the claims 11 to 17 characterized in that the strip conductor part (5', 5'') is made out of a flexible plastic material.
19. Blister pack system pursuant to any of the claims 1 to 18 characterized in that the individual contact surfaces (10 to 17) have the form of the elements that annularly surround the ejection openings (7).
20. Blister pack system pursuant to any of the claims 1 to 19 characterized in that the common contact surface (18) has the form of an element surrounding the guide slot (8) annularly.
21. Blister pack system pursuant to any of the claims 1 to 20 characterized in that the peg section (27) of the ejection device (40) comprises a sliding part (29) that slides on the edge region of the guide slot (8) and a holding part (31) distanced from the sliding part on which the additional contact element (30) that is resilient in the axial direction of the peg section (27) is arranged, where the peg section (27) penetrates the guide slot (8).
22. Blister pack system pursuant to claim 21 characterized in that the top section (25) is connected to the peg section (27) via a part (26) that can be deviated around an axis (28) extending transversely to the axis of the peg section (27) in the region of the peg section (27) that projects over the sliding part (29).
23. Blister pack system pursuant to any of the claims 1 to 22 characterized in that the contact element (24) of the top section (25) has an annular design and that it extends around the ejection pusher (23).

24. Blister pack system pursuant to any of the claims 1 to 23 characterized in that the additional contact element (30) of the peg section (27) has an annular design and that it extends around the peg section (27).